Claims 1-16 are currently pending. Claims 1, 5, 9 and 13 have been amended.

Claims 17-20 are withdrawn. Applicants respectfully request entry of this amendment

based on the following remarks.

Rejection under 35 USC 112, second paragraph

The Examiner rejected claims 1-16 as being indefinite.

Claims 1 and 9 have been amended to clarify that the fusion protein is cleaved

at the intein cleavage site, so as to release the cleavable intein from the fusion protein,

leaving a remaining portion of the fusion protein. These claims now also specify that

the ligand is attached to the remaining portion of the fusion protein at the newly

generated terminus of the remaining portion.

Support for this amendment can be found at least at paragraphs 0025, 0028 and

0053-0055 and in Figure 1 of the application as originally filed. The specification

indicates that in the exemplified embodiment the intein only undergoes the first step of

cleavage, thus forming a thioester bond in fusion protein. In the described

embodiment, the intein is cleaved from the upstream portion of the fusion protein by

addition of the cysteine-biotin ligand that has a free thiol group that attacks the thioester

bond, which defines the interface between the upstream portion and the cleavable

intein, resulting in addition of the cysteine-biotin to the upstream portion of the fusion

protein via a new thioester bond and release of the downstream intein portion of the

fusion protein. This mechanism is depicted in Figure 1.

Claims 5 and 13 have been amended to indicate that the ligand is cysteine-

biotin. Support for this amendment is found at least in paragraphs 0028 and 0029 of

the application as originally filed.

It is believed that claims 1, 5, 9 and 13 as amended are definite. The remaining

claims, 2-4, 6-8, 10-12 and 14-16 depend from these claims, and are also definite.

Applicants respectfully request withdrawal of the rejection under 35 USC 112 second

paragraph.

Rejection under 35 USC 102(a)

The Examiner rejected claims 1-3, 9 and 10 as anticipated by Lesaicherre, et al.

Initially, applicants have concluded that there is an error in inventorship in this

application. In particular Mahesh Uttamchandani was incorrectly listed as an inventor

as a result of error and without deceptive intent. Thus the correct inventors are Marie-

Laure Lesaicherre, Yee Peng Rina Lue, Y.J. Grace Chen, and Shao Qin Yao.

Applicants will submit a request to correct the inventorship pursuant to 37 CFR 1.48,

once the appropriate declarations and statements have been executed.

Applicants Marie-Laure Lesaicherre, Yee Peng Rina Lue, Y.J. Grace Chen, and

Shao Qin Yao submit that they are the sole inventors of the subject matter described

and claimed in the pending application and also disclosed in the cited Lesaicherre, et al.

article. Applicants aver that co-author Qing Zhu listed on the article did not contribute

to the conception of the claimed invention. A declaration in support will be filed along

with the documents requesting the change in inventorship.

Thus the Lesaicherre, et al. article describes the inventors' own work. So the

claimed invention was not known or used by others in this country or described in a

printed publication in this or a foreign country before the invention thereof by the

Applicants. In re Katz, 215 USPQ 14 (CCPA 1982), M.P.E.P. § 2132.01.

Applicants respectfully request withdrawal of the rejection under 35 USC

102(a).

## Rejection under 35 USC 103

The Examiner rejected claims 5-16 as obvious having regard to the Lesaicherre, et al. reference in view of one or more of Duan, Cass, et al., and Nygren, et al.

Given that the Lesaicherre, et al. reference is not citable under 35 USC 102, Applicants respectfully submit that the grounds for this rejection are moot. Applicants respectfully request withdrawal of this rejection.

It is believed that no new matter has been added by these amendments.

In view of the foregoing, the application is in condition for allowance. Applicants respectfully request entry of this amendment and allowance of the application.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By:

Richard J. Polley

Registration No. 28,107

One World Trade Center, Suite 1600

121 S.W. Salmon Street

Portland, Oregon 97204 Telephone: (503) 226-7391

Facsimile: (503) 228-9446